This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A circuit arrangement, comprising:

a transmission unit for inserting data belonging to at least one terminal equipment type in a frame having a frame length, said transmission unit comprising an insertion mechanism for inserting said data of a ~~the~~ terminal equipment of the at least one terminal equipment type ~~types~~, said data of all terminal equipment types being synchronously inserted into said frame and transmitted with a transfer rate formed dependent on the frame length and number of bits arranged in the frame with a digital time-division multiplex technique.

2. (original) A circuit arrangement, comprising:

a reception unit for dividing a datastream transmitted in a frame by a transmitter to at least one terminal equipment type; and

a switch module for a purpose-conforming division of said datastream, in which a further division onto further terminal equipment of a terminal equipment type is undertaken based on control data.

3. (original) A circuit arrangement, comprising a transmission-reception unit which comprises said transmission unit of claim 1, and said reception unit of claim 2.

4. (currently amended) A method for transmitting a data stream in a frame belonging to at least one terminal equipment type, comprising the steps of:

synchronously inserting data of all terminal equipment types into said frame in a first unit;

transmitting said data with a transfer rate formed dependent on a frame length and number of bits arranged in the frame to a second unit with a time-division multiplex method; and

dividing said data stream to terminal devices of at least one terminal equipment type in said second unit.

5. (original) A method according to claim 4, further comprising the step of depositing data for operational control of a connection to which at least one terminal equipment is connected in an operating eoc channel of said frame.

6. (original) A method according to claim 5, wherein said connections are telephony connections, ISDN connections or broadband connections.

7. (original) A method according to claim 4, further comprising the step of filling a payload data region available in a frame in a terminal equipment-specific manner depending on a transmission rate of a transmission link.

8. (original) A method according to claim 4, further comprising the step of connecting a plurality of terminal equipment of at least one terminal equipment type to a transmission-reception unit.

9. (original) A method according to claim 4, further comprising the steps of:

providing bits for operational control in said data belonging to a terminal equipment type; and

arranging said bits outside of a payload data region provided for said terminal equipment.

10. (original) A method according to claim 9, wherein said bits for operational control are arranged in an overhead of said frame.

11. (original) A method according to claim 10, further comprising the steps of:

allocating said bits for operational control to an operating eoc channel; and

addressing said bits for operational control via a sub-address in a message format of said operating channel.

12. (original) A method according to claim 4, further comprising the step of accepting data of a plurality of ISDN connections in said frame, said frame being a symmetric digital subscriber line frame.

13. (original) A method according to claim 4, further comprising the step of accepting data of a plurality of traditional telephony connections in said frame, said frame being a symmetric digital subscriber line frame.

14. (currently amended) A method according to claim 4, wherein said step of transmitting said data comprises transmitting said data of a ~~the~~ symmetric digital subscriber line frame synchronously on a transmission link between said first unit, which is a network node, and said second unit, which is a network termination unit with a time-division multiplex method.

15. (cancelled).